

Name: _____

Period _____

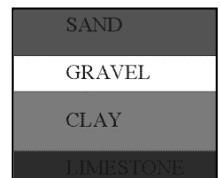
Principles of Geology:

- **Law of Superposition:** The youngest layer of rock is on the top. The oldest layer of rock is on the bottom
- **Law of Cross-cutting relationships:** Igneous rocks or faults that “cut” into other rocks are the youngest. (the “other rocks” had to be there before they could get cut by anything)

1a. Which of these layers is the youngest? _____

b. How do you know? _____

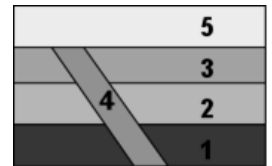
c. What principle of geology does this relate to? _____



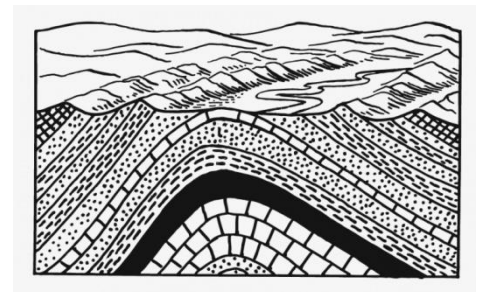
2a. Which feature is the youngest? _____

b. How do you know? _____

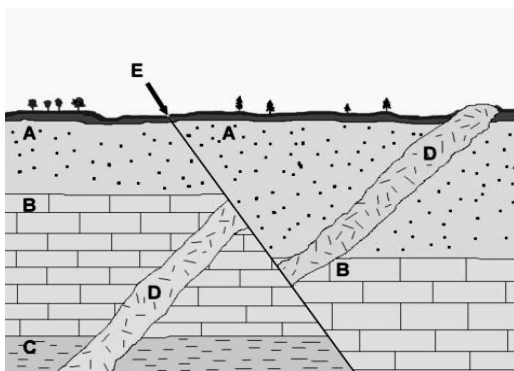
c. What principle of geology teaches that concept? _____



3. What happened to these layers of rock? _____



4a. Arrange the features from oldest to youngest.



_____ youngest

_____ oldest

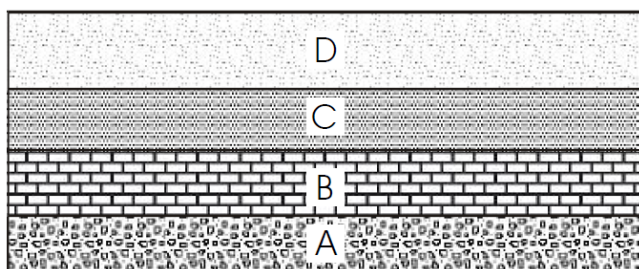
b. Which way did the rocks to the right of the fault move (upward or downward)? _____

c. Which geologic principles did you use to answer part a?

- _____
- _____

For the following cross-sections, arrange the order of features from oldest to youngest.

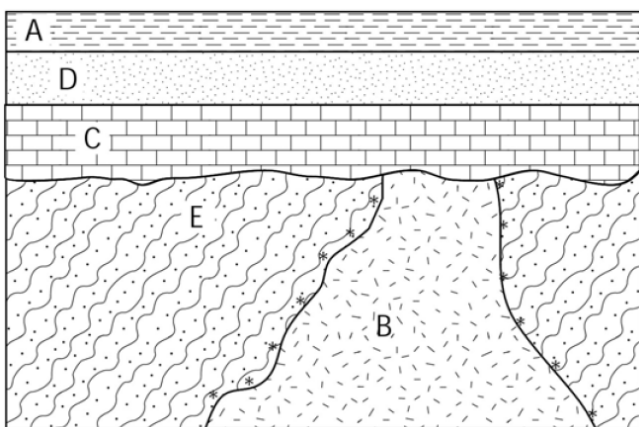
5.



_____ youngest

_____ oldest

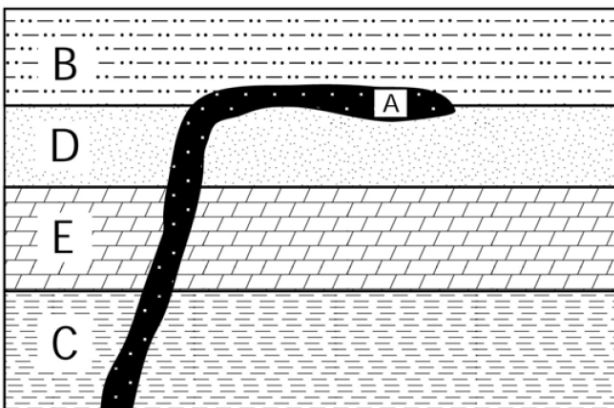
6.



_____ youngest

_____ oldest

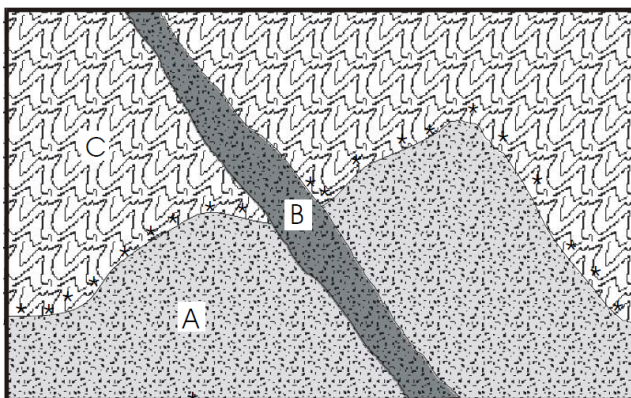
7.



_____ youngest

_____ oldest

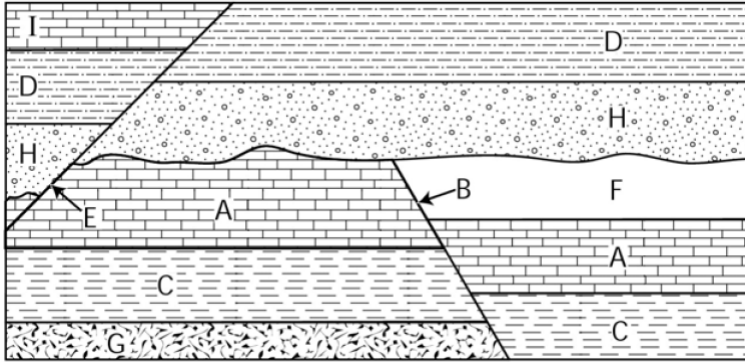
8.



_____ youngest

_____ oldest

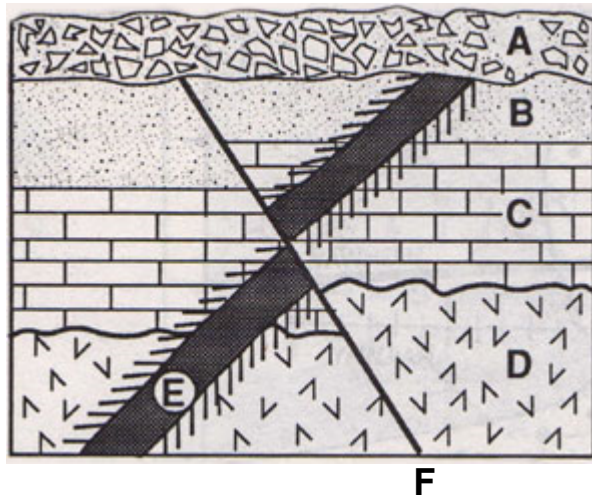
9.



_____ youngest

 _____ oldest

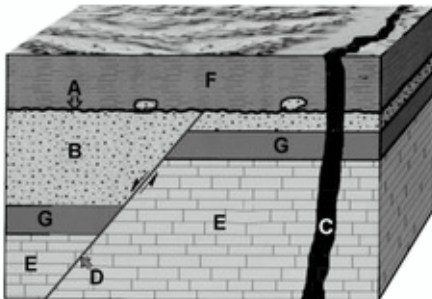
10.



_____ youngest

 _____ oldest

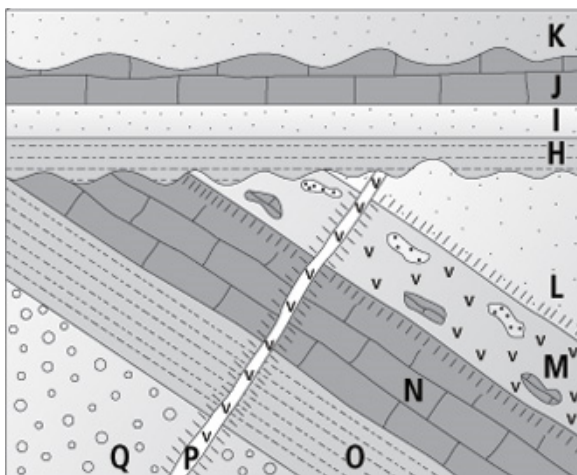
11.



_____ youngest

 _____ oldest

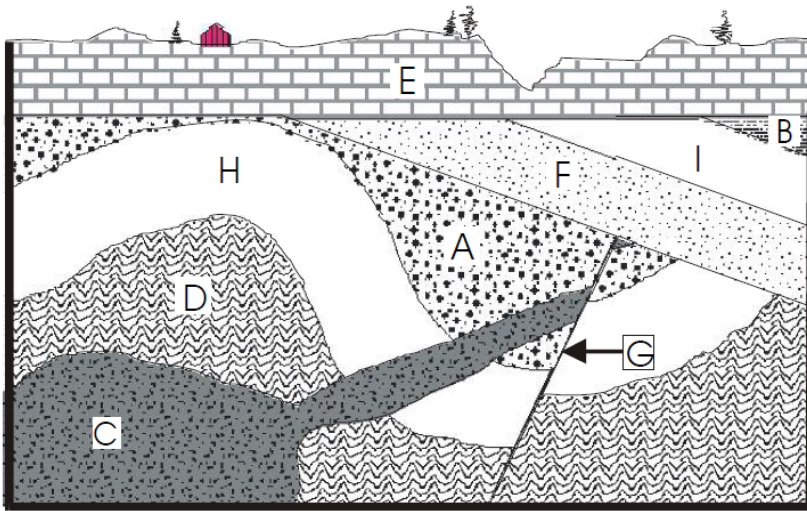
12.



_____ youngest

 _____ oldest

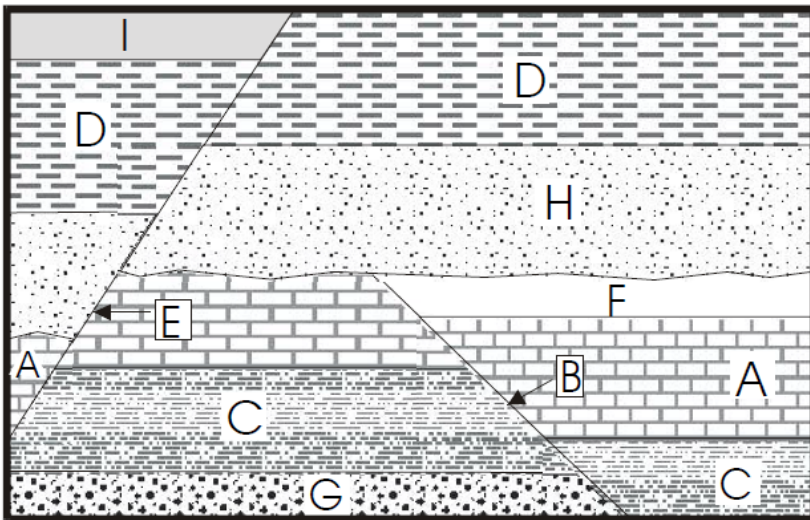
13.



_____ youngest

_____ oldest

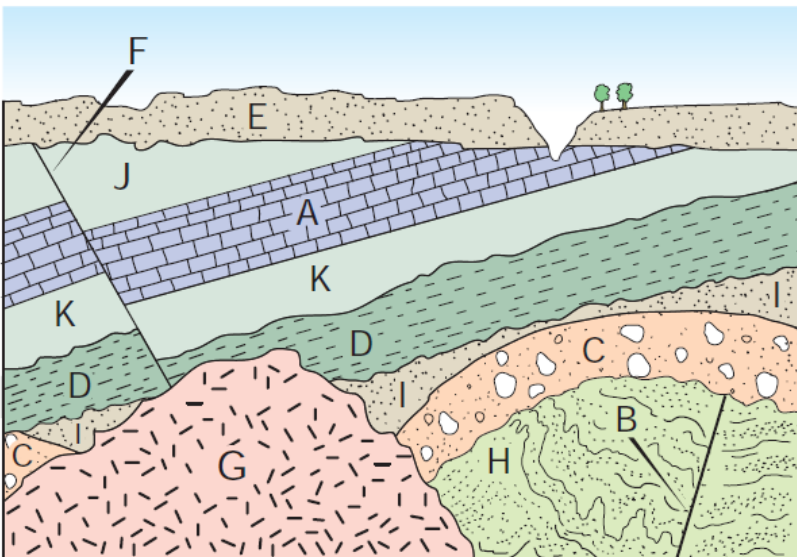
14.



_____ youngest

_____ oldest

15.



_____ youngest

_____ oldest